

NOVASTAT / NOVAMASTER EL

ELECTRONIC ROOM THERMOSTATS AND CONNECTOR MODULES











Individual control of room temperature.

DESCRIPTION

Room thermostats in combination with Taconova NovaDrive or TopDrive actuators provide a constant room temperature in closed and dry rooms. The Taconova room thermostat range, classified according to price/performance, offers the correct solution for individual needs.

The basic version **NovaStat EL Basic** for the control of 230 V NC actuators covers the most common application range.

The **NovaStat EL Digital 2** version displays the set and actual values on a digital display.

Individual heat regulation as required by the operator is achieved by means of the programmable digital **NovaStat EL Week** clock thermostat. The time duration of the lowering mode can be set in the week program by means of the integral timer.

The connection of the room thermostats to the terminal module NovaMaster EL Basic and/or Logic is simple and uncomplicated. Further convenient settings are possible by mean of the optional plug-in NovaMaster EL Timer.

ADVANTAGES • Facy to operate

- Easy to operate
- Noiseless Triac circuit
- Units for 230 V and 24 V power supply
- Integrated derivative action control or PI control (adjustable)
- Simple wiring through the NovaMaster EL Basic, Logic and SlaveBox terminal modules

INSTALLATION POSITION

The thermostats are mounted in the respective room while the connector modules are mounted close to the manifold.

OPERATION

By means of an NTC sensor element, the downstream PI or derivative action controller, the room thermostats provide a constant room temperature in combination with actuators.

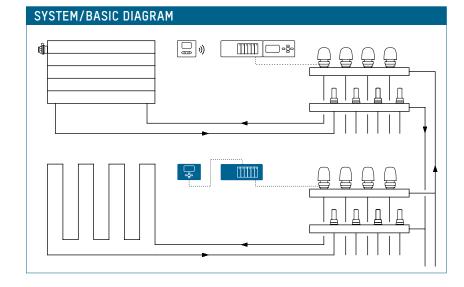
Switching is via a silent TRIAC element or a floating relay.

Control is by means of the actuator acting on the valve according to the OPEN / CLOSED principle. The PI or derivative action controller integrated into the room thermostat prevents the room temperature from exceeding the desired value set on the room thermostat.

BUILDING CATEGORIES

For installations in the heating and cooling area:

- Apartment blocks, housing estates, multiple dwelling units
- Residential care facilities, hospitals
- Administration and service buildings
- Hotels and restaurants, industrial kitchens
- School buildings and sports facilities
- Commercial and industrial buildings



NOVASTAT EL | ELECTRONIC ROOM THERMOSTATS









1 NOVASTAT EL BASIC

Room thermostat for normally closed actuators

230 V room thermostat for controlling NC actuators for underfloor heating systems. Noiseless switching output (Triac) with direct or indirect connection of actuators. Dial with integral adjustment facility for correction of actual temperature integrated into the dial.

TECHNICAL DATA

- Order no.: 206.1650.000
- \bullet Operating voltage: 230 VAC 50 Hz \pm 10 %
- Operating temperature: 0-50 °C (32-122 °F)
- Adjustment range: 5-30 °C (41-86 °F)
- Switching output: TRIAC 230 VAC, NC max. 75 W
- Type of protection: IP 30, Protection class II
- Type of controller: Static derivative action controller
- Differential gap: ±0,5K
- Temperature sensor: NTC 100 K
- Dimensions / color: H80 × W80 × D31 mm / RAL 9010
- Version without handwheel (NovaStat EL Public, 230 V + 24 V) on request

2 NOVASTAT EL INWALL

Room thermostat for normally closed actuators

Electronic 230 V flush-mounted room thermostat for controlling NC actuators for underfloor heating systems. Relay switching output with direct or indirect connection of actuators. An external timer switch or an additional floor sensor can be fitted. Mode can be set by mean of jumpers.

TECHNICAL DATA

- Order no.: 206.1654.000
- Operating voltage: 230 VAC 50 Hz ± 10 % / 5 VA
- Operating temperature: 0-50 °C (32-122 °F)
- Adjustment range: 5-35 °C (41-86 °F)
- Switching output: Relais 230 VAC / max. 16 A
- Type of protection: IP 21, Protection class II
- Type of controller: Two point control
- Sensor deviation: ±1 K
- Hysterese: 0.75 °C
- Temperature sensor: NTC 10 K
- Frame dimensions: Standard 65 mm

3 NOVASTAT EL DIGITAL 2

Room thermostat for normally closed and normally open actuators

Electronic, battery-operated room thermostat for operating NC/NO actuators, for underfloor heating systems with digital display. Floating relay output for direct or indirect connection of 24 V/230 V actuators. With normal, reduced temperature or frost protection settings. Timer function for temperature reduction or increase. Battery charge status indicator on the display. Keypad lock function. Input for external temperature sensor (NTC 10 K).

TECHNICAL DATA

- Order no.: 206.1660.000
- Operating voltage: 2 × LR6 AAA 1,5 V batteries
- Operating temperature: 0-40 °C (32-104 °F)
- Adjustment range: 5-35 °C in 0,5 °C steps (41-95 °F)
- Switching output: 3 A (250 VAC)
- Type of protection: IP 30, Protection class II
- Type of controller: Static differential action or PWM (proportional)
- Differential gap: ±0,5 K
- Temperature sensor: NTC 10 K, optionally external NTC 10 K
- Dimensions / color: H 83 × W 80 × D 27 mm / RAL 9010

NOVASTAT EL | ELECTRONIC ROOM THERMOSTATS

4 NOVASTAT EL WEEK

Room thermostat for normally closed and normally open actuators

Electronic battery operated and programmable room thermostat for controlling NC / NO actuators, for underfloor heating systems with digital display, floating relay output for direct or indirect connection of 24 V / 230 V actuators. Mode switch for normal and lowering mode or automatic timed programs. Can be programmed for weekly and daily programs and for vacations, frost protection and keyboard lock function. Battery supply to avoid data loss in the event of power failure. Battery charge state shown on the display.

TECHNICAL DATA

- Order no.: 206.1653.000
- Operating voltage: 2 × LR6 AA 1,5 V batteries
- Operating temperature: 0-50 °C (32-122 °F)
- Adjustment range: 5-35 °C (41-95 °F) frost protection 0,5-10 °C (33-50 °F)
- Switching output: Relais floating, NC / NO max. 8 A
- Type of protection: IP 30, Protection class II
- Type of controller: PI controller
- Adjustment bandwidth: 2°K of proportional band
- Adjustment speed: 7,5 cycles / hour (8 min cycle)
- Temperature sensor: NTC 100 K
- Dimensions / color: H86 × B125 × T32 mm / RAL 9010

NOVAMASTER EL | ELECTRONIC CONNECTOR MODULES











1 NOVAMASTER EL BASIC

Wiring module for connecting electrothermal actuators and room thermostats with terminals marked by symbols

Modular design enables expansion by SlaveBox to provide for further connections. Direct wall mounting or mounting on DIN rail. Control of 24 V actuators by means of optional transformer. Operating status output shown by LEDs

TECHNICAL DATA

- Order no.: 258.9310.000
- Operating voltage: 230 VAC 50 Hz ± 10 % / 24 VAC with transformer
- Operating temperature: 0-50 °C (32-122 °F)
- Number of zones: 6 (max. 4 drives / zones)
- Max. number of drives: 24 × 230 VAC or 18 × 24 VAC
- Number of drives / zones: Max. 4 drives / zones
- Time control line: None
- Type of protection: Protection class II IP 30
- Dimensions / color: H88 × B225 × T58 mm / RAL 9010

2 NOVAMASTER EL LOGIC

Wiring module for connecting electroterminal actuators and room thermostats with terminals marked by symbols.

Modular design enables expansion by NovaMaster EL Timer to provide for further control functions. Switching output for time control of room thermostat.

Two floating switching outputs as a control contact for pump logic. Direct wall mounting or mounting on DIN rail. Operating status indicated by LEDs.

TECHNICAL DATA

- Order no.: 258.9311.000
- Operating voltage: 230 VAC 50 Hz ± 10 %
- Operating temperature: 0-50 °C (32-122 °F)
- Number of zones: 6 (max. 4 drives / zones)
- Max. number of drives: 24 x 230 VAC
- Time control line: Zones A and B present
- Switching output: 2 x relays, floating, max. 8 A
- Type of protection: Protection class II IP 30
- Dimensions / color: H88 × B225 × T58 mm / RAL 9010

NOVAMASTER EL | ELECTRONIC CONNECTOR MODULES

3 NOVAMASTER EL SLAVEBOX

An expansion module for wiring electrothermal actuators and room thermostats with terminals marked by symbols

Plug-in expansion to NovaMaster EL Basic for further connection possibilities. Direct wall mounting or mounting on DIN rail. Control of 24V actuators by means of optional transformer. Operating status indicated by LEDs.

TECHNICAL DATA

- Order no.: 258.9313.000
- Operating voltage: 24 VAC with transformer / 230 VAC 50 Hz \pm 10 %
- Operating temperature: 0-50 °C (32-122 °F)
- Number of zones: 4 (max. 4 drives / zones)
- Max. number of drives: Σ NovaMaster EL Basic + SlaveBox = 24 × 230 VAC oder 18 × 24 VAC
- Time control line: None
- Type of protection: Protection class II IP 30
- Dimensions / color: H88 × W160 × D58 mm / RAL 9010

4 NOVAMASTER EL TIMER

NovaMaster EL Timer expansion module for connection to NovaMaster EL Logic

Programmable timer function for two time group A and B. Integrated application program of which nine are fixed and two are user programmable. Intelligent processor. Digital display for program, time and function display. Direct wall mounting or mounting on DIN rail.

TECHNICAL DATA

- Order no.: 258.9315.000
- Operating voltage: 230 VAC 50 Hz ± 10 %
- Operating temperature: 0-50 °C (32-122 °F)
- Number of zones: 12 Zones, controllable
- Time control line: Zones A and B present
- Operating modes: Automatic; convenience; lowering
- Keyboard lock: Present
- Type of protection: Protection class II IP 30
- Dimensions / color: H88 × W160 × D62 mm / RAL 9010

5 TRANSFORMATOR

Transformer for connection to Nova-Master EL Basic or SB

Enables 24 V actuators to be connected to the respective terminal module.

TECHNICAL DATA

- Order no.: 258.9316.500
- Operating voltage: 230 VAC 50 Hz ± 10%
- Operating temperature: 0-50 °C (32-122 °F)
- Output voltage: 24 VAC max. 60 W
- Type of protection: Protection class II IP 30
- Dimensions / color: H83 × W110 × D61 mm / RAL 9010